

Z 64788-65 EWA(c)/EWT(1)/EWT(m)/EWP(i)/EWP(b)/T/EWP(t) IJP(c) GG/JD

ACCESSION NR: AP5018734

UR/0070/65/010/004/0585/0586
548.522:539.23

40
34
B

AUTHORS: Postnikov, V.V.; Loginova, R.G.; Ovsyannikov, M.I.
44,55 44,55 44,55

TITLE: Application of the magnetic moment in ferromagnetic films to continuously rotating elements of computers

SOURCE: Kristallografiya, v. 10, no. 4, 1965, 585-586

TOPIC TAGS: germanium, ^{44,55}etched crystal, crystal lattice dislocation ↙

ABSTRACT: An estimate is made of the pressure and growth rate which should yield single-crystal silicon films. Using these estimates, layers of silicon on silicon were obtained at a pressure of less than 2×10^{-7} mm Hg and at growth rates of 3--20 μ /hr. The layers were obtained by evaporation of silicon from the solid state. The silicon samples were chemically polished. During growth the temperature of the substrate (1000--1250C) was kept constant. In the entire range of temperatures and growth rates single-crystal layers were obtained.

Card 1/2

L 64788-65

ACCESSION NR: AP5018734

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Epitaxial layers of silicon were obtained at 1000C and a growth rate of 20 μ /hr. The maximum thickness of the films which we obtained was 50 μ . "V. M. Obolikshto took part in the work." Orig. art. has: 2 formulas and 1 figure. 44,55

ASSOCIATION: Gor'kovskiy issledovatel'skiy fiziko-tehnicheskii institut (Gor'kiy Physicotechnical Research Institute) 44,55

SUBMITTED: 08Aug64

ENCL: 00

SUB CODE: 88

NR REF SOV: 002

OTHER: 004

Cord

44
5/2

L 36397-66 EWT(m)/T/EWP(t)/ETI IJP(c) JD

ACC NR: AP6018783

SOURCE CODE: UR/0070/66/011/003/0479/0480

AUTHOR: Loginova, R. G.; Kuznetsov, V. P.; Ovsyannikov, M. I.; Postnikov, V. V.

ORG: Gor'kiy Physicotechnical Institute (Gor'kovskiy fiziko-tekhnicheskiy institut)

TITLE: Properties of epitaxial layers of silicon grown by vacuum sublimation

SOURCE: Kristallografiya, v. 11, no. 3, 1966, 479-480

TOPIC TAGS: single crystal, epitaxial growing, vacuum sublimation, temperature dependence, Hall constant, specific resistance, current carrier

ABSTRACT: Hall coefficients and specific resistivity measurements as functions of the concentration and mobility of current carriers were studied in single crystal Si films at temperatures ranging from 77° to 450°K. The thin films (50 to 200 μ) were produced by vacuum sublimation ($2 \cdot 10^{-7}$ mm Hg) on heated substrates (900° to 1200°C). Using the above data, the transport coefficients for B and P impurities were calculated. The films were n- and p-type, depending upon the source of the conductivity (B yielded p-type; P yielded n-type). The given temperature dependence for the concentration of current carriers in Si films was compared to the n- and p-type conductivity for published data on Si single crystals. At equal impurity concentrations, the given Hall mobility of the current carriers in epitaxial films was close to the mobility measured in Si single crystals for all temperatures (77°-450°K). Films of p-type conductivity had

UDC: 548.52 : 539.23

Card 1/2

PETROVSKIY, Nikolay Viktorovich. Prinjimali uchastiye: **KAMKIN, S.V.**, kand. tekhn.nauk; **NESTARENKO, N.V.**, aspirant; **OVSIANNIKOV, M.K.**, kand. tekhn.nauk. **KPEL'MAN, T.Ye.**, dotsent, kand.tekhn.nauk, retsenzent; **ROLINSKIY, V.Yu.**, dotsent, kand.tekhn.nauk, retsenzent; **TABACHNIKOV, L.Ya.**, dotsent, kand.tekhn.nauk, retsenzent; **BRINCHIK, A.M.**, dotsent, kand.tekhn.nauk, retsenzent; **GRIBANOV, V.I.**, kand.tekhn.nauk, nauchnyy red.; **APTEKMAN, M.A.**, red.; **FRUMKIN, P.S.**, tekhn.red.

[Special problems in the theory of marine diesel engines] Spetsial'nye voprosy teorii sudovykh dizelei. Leningrad, Gos.soiuznoe izd-vo sudostroitel.promyshl., 1960. 311 p. (MIRA 13:10)
(Marine diesel engines)

OVSYANIKOV, M. K.

1746. EFFECT OF CONDITIONS OF GAS TRANSFER ON THE OPERATION OF THE
CYLINDERS OF A LOW SPEED TWO-STROKE DIESEL ENGINE. OVSYANIKOV, M. K. ---
(Energo Mashinostroyeniye (Eng. Mech., Leningrad), Sept. 1957, 21-25). Results
are given of oscillograph and other measurements on all the cylinders of
six engines of 100 to 700 h.p. per cylinder running at 100 to 300 rev/min.
(L).

NOVIKOV, Mikhail Petrovich,; SHPAKOVA, A.P., otv. za vypusk,; OVSYANNIKOV,
M.F., dots., kand. filosofskikh nauk, red.; PURMAN, G.V., tekhn. red.

[Inconsistencies in the socialist system of production and
how to overcome them] Protivorechiia v sotsialisticheskom sponobe
proizvodstva i ikh preodolenie. Moskva, Ob-vo po rasprostraneniui
oolit. i nauchn. znaniu RSFSR, 1958. 31 o. (MIRA 11:12)

1. Zav. otdelom filosofii, pedagogiki, literatury i iskusstva
Pravleniya Obshchestva po rasprostraneniyu politicheskikh i
nauchnykh znaniy RSFSR (for Shpakova).
(Industry)

SOV: 124-58 5-5274 D

Translation from Referativnyi zhurnal. Mekhanika, 1958, No. 5, p. 45. 155#

AUTHOR Ovsyannikov, M.K.

TITLE Investigation of Gas-scavenging Conditions in Two-stroke Marine Diesels (Issledovaniye usloviy gazoobmena v sudovykh dvukhtaknykh dizelyakh)

ABSTRACT Bibliographic entry on the author's dissertation for the degree of Candidate of Technical Sciences, presented to the Leningr. vyssh. inzh. morsk. uch-shche (Leningrad Higher School of Naval Engineering), Leningrad, 1956.

ASSOCIATION Leningr. vyssh. inzh. morsk. uch-shche (Leningrad Higher School of Naval Engineering) Leningrad

... diesel engine --performance

Card 1/1

OVSYANNIKOV, M. K., Cand Tech Sci -- (diss) "Study of the Con-
ditions of Gas Exchange in Two-Cycle Ship Diesels." Len, 1957.
18 pp with graphs (Min of ~~Navy~~ ^{Naval} USSR, Len Higher Engineering
Naval School in Admiral S. O. Makarov), 100 copies (KL, 10-57,
13)

OVSYANNIKOV M.K.

Approximate evaluation of disk strength of radial turbomachines
Sud. sil. ust. no. 103544 (61) (MIRA 1961)

1. Leningradskoye vyssheye inzhenernoye morskoye uchilishche
im. admirala Makarova.
(Gas turbine disks)

OVSYANNIKOV, M. K., kand.tekhn.nauk

Selection of main diesel engine fuel pumps for icebreakers with electric transmission to the propellers. Sudostroenie 28 no.11:33-35 N '62.

(MIRA 15:12)

(Marine diesel engines—Fuel systems)

OVSYANNIKOV, M.K., kand.tekhn.nauk

Results of testing the main engines of the icebreaker "Moskva."
Sudostroenie 28 no.6:45-46 Je '62. (MIRA 15:01
(Marine diesel engines--Testing)
(Ice-breaking vessels)

Ovsyannikov, M. K.

10000

ENERGETICHESKII BYULLETEN

(Power Bulletin)

No. 4, April, 1956

Handwritten signature
ZINCHENKO, V. I.

OVSYANNIKOV, M. A.

The Conditions of Gas Exchange in the Cylinders of Engine Type MDR-30/50.

Study of a two stroke engine to establish the reasons for uneven power output of different cylinders.

~~was~~
was

ZINCHENKO, V.I.; OVSYANNIKOV, M.K.

Conditions of gas exchange in the cylinder of the 4DR-30/50 engine.
Energ.biuł.no.4:7-10 Ap '56. (MIRA 9:7)
(Diesel engines)

I 17832-63

EPR/EPA(b)/EWT(1)/BDS/ES(v)

AECC/AFFTC/ASD/AFMDC

Pa-1/Pd-1/Pe-1 WW

ACCESSION NR: AP3004746

S/0170/63/006/008/0092/0096 71
70AUTHOR: Ovsyannikov, M. P.TITLE: External drag at supersonic inlet velocities of ducted bodies with an elliptical cone at the inlet

SOURCE: Inzhenerno-fizicheskiy zhurnal, v. 6, no. 8, 1953, 92-96

TOPIC TAGS: air-intake duct, air-breathing aircraft, air intake, supersonic air intake, elliptical nose, drag, external drag

ABSTRACT: The external drag of a body with a throughflow duct with an elliptical cone at the inlet is analyzed for Mach numbers at which the flow into the duct does not interfere with the external flow (e.g., the case of a pure conical flow between the apex of the elliptical cone and the rim of the intake air collector). When the cross-section surface of the intake rim is larger than that of the undisturbed fluid jet entering the duct, the external drag of the ducted nose cone is equal to the drag of the collector rim in the fluid contour generated by the stream passing over the front part of the body. To determine the local pressure coefficient in the fluid contour, the flow over an elliptical cone is

Card 1/2

L 21125-65 EWT(d)/EWT(1)/EWP(m)/EWT(m)/EWP(w)/EWG(v)/ENA(d)/EWP(v)/EWP(k)/PCS(k)/
ENA(h) Pd-1/Pe-5/Pf-4/Peb AFWL/SSD(b)/AEDG(a)/BSD/SSD/ASD(f)-3/ASD(p)-3/AFETR/
ACCESSION NR: AP5002032 AFTC(a)/AFOC(a) S/0170/64/000/012/D.95/0105
EM/WW

AUTHOR: Mkhitarian, A. M.; Ovsyannikov, M. P.

TITLE: Determining the linearized perturbation fluxes in hypersonic air flow over conical bodies without axial symmetry

SOURCE: Inzhanerno-fizicheskii zhurnal, no. 11, 1964, 95-103

TOPIC TAGS: hypersonic flow, supersonic flow, shock waves, shock coefficient, inviscid flow, dissociated air, perturbation flux, conical flow, linearized characteristics method

ABSTRACT: The inviscid hypersonic flow of an ideal gas over thick and thin conical bodies without axial symmetry is considered. This study is a further development of similar studies by Ferri (JAS, no. 8, 1953) and Chapkis (JAS, no. 11, 1961), using the superposition of linear solutions on a nonlinear solution for flow around circular cone. However, the results obtained for flows over thin conical bodies differ from that of Chapkis. Equations that define the velocity components of the linearized perturbation fluxes are derived for thick and thin conical bodies, respectively. A generalized solu-

Card 1/2

L 26117-65 EMT(1)/EWP(B)/EWA(d)/EWG(v)/FCS(k)/EWA(1) Pd-1/Pe-5 WW

31
17
B

ACCESSION NR: AP5005529

8/0147/65/000/001/0007/0014

AUTHOR: Mkhitaryan, A.M.; Ovsyannikov, M.P.

TITLE: On the determination of linearized perturbation flows in hypersonic flow over conical bodies without axial symmetry

SOURCE: IVUZ. Aviatsionnaya tekhnika, no. 1, 1965, 7-14

TOPIC TAGS: hypersonic flow, linearized flow, linearized flow solution, elliptical cone, conical flow, linearized characteristic method

ABSTRACT: This paper presents a study of hypersonic flow over thick conical bodies without axial symmetry and constitutes a development of similar studies by Ferri, Ness, Kaplita, and Chapkis, using a linearized procedure. The equations that define the velocity components of the linearized flow fields are written and boundary conditions on the body surface and at shock wave which must be satisfied are established. Certain simplifying assumptions are introduced in the analysis. Two linearized solutions are obtained corresponding to values of $n(n=1$ and $n > 2)$. It is shown that at free-stream Mach numbers, the velocity components u_n and v_n just behind the shock wave are of the same order for thick conical bodies and that u_n is one order less than v_n for slender conical bodies. The calculated values of the pressure coefficients c_p for thick elliptical cones, obtained by approximate form-
Card 1/2

L 26117-65

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ACCESSION NR: AP5005529

ulas of the asymptotic solution and by a step-by-step numerical procedure, are given in graphical form for the purpose of comparison. Orig. nrt. has: 2 figures and 42 formulas. [AB]

ASSOCIATION: none

SUBMITTED: 09Mar64

ENCL: 00

SUB CODE: ME

NO REF SOV: 001

OTHER: 000

ATD PRESS: 3186

Card 2/2

MKHITARYAN, A.M.; 1977 . . .

Determining linearized perturbation flows about
about nonaxisymmetric bodies. Izv. vyssh. shkoly tekhn.
av. tekhn. 8 no.17-14 1977.

OVSYANNIKOV, N.A.; SOYENKO, V.A.; RAGULINA, I.V.

Improve the economic indices of the work of canning plants.
Kons. i ov. prom. 18 no.12:26-28 D '63. (MIRA 17:1)

1. Ukrainskiy nauchno-issledovatel'skiy institut konservnoy
promyshlennosti.

DOLGIY, I.P.; OVSYANNIKOV, N.A.; MILOKOSTOVA, L.I.

Eliminate working time losses in the canning plants. Kons. i sv. proc.
17 no. 7:32 JI '62. (MIRA 15:6

1. Odesskiy tekhnologicheskiy institut pishchevoy i kholodil'noy
promyshlennosti.

(Canning industry—Management)

OVSIANNIKOV, N.

~~XXXXXXXXXXXXXXXXXXXX~~

Reconstruction of the Volga-Kama Basin waterways. Blok.agit.vod.
transp. no.22:1-8 N'55. (MLRA 9:1)

1.Pervyy samestitel' Ministra rechege flota SSSR.
(Volga Valley--Inland navigation)

OVSYANNIKOV, N.

Problems facing water management construction workers in 1963.
Sel'. stroi. 17 no.2:1-3 P '63. (MIRA 16:3)

1. Pervyy zamestitel' predsedatelya Gosudarstvennogo komiteta Soveta
Ministrov RSFSR po vodnomu khozyaystvu.
(Irrigation) (Drainage)

OVSYANNIKOV, N.

Protection of natural resources is a task of nation-wide importance.
Rech. transp. 19 no.12:1-4 D '60. (MIRA 13:12)

1. Predsedatel' Gosudarstvennogo komiteta Soveta ministrov RSFSR po
ispol'zovaniyu i okhrane poverkhnostnykh i podzemnykh vodnykh
resursov.

(Water resources)

OVSYANNIKOV, N.G.

General long-range plan for comprehensive utilization of water resources and hydraulic engineering construction. Izv. AN SSSR. Ser. geog. no.5:28-35 S-0 '71. (MIRA 14:9)

1. Gosudarstvennyy komitet Soveta Ministrov RSFSR po vodnomu khozyaystvu.

(Water resources development)

OVSYANNIKOV, M.

Raise water management construction to the level of the new objectives.
Sel'. stroi. no.6:1-2 Je '62. (MIRA 15:7)

1. Pervyy zamestitel' predsedatelya Gosudarstvennogo komiteta
Soveta Ministrov RSFSR po vodnomu khozyaystvu.
(Water-supply engineering)

OVSYANNIKOV, N.; ZORIN, N.; MATLIN, G.; KUZKOV, L.; VEDROV, S.

Improve the full use and preservation of U.S.S.R. water resources.
Rech. transp. 19 no.11:32-35 N '60. (MIRA 13:11)
(Water supply engineering)

OVSIANNIKOV, N.

Complete river navigation successfully. Blok. agit. vod. transp.
no.19:9-16 0 '56. (MIRA 9:11)

1. Zamestitel' ministra rechnogo flota RSFSR.
(Inland water transportation)

OVSYANNIKOV, N.A.; MILOKOSTOVA, L.I.; DOLGIY, N.P.

Pay attention to the movement of efficiency promoters. *Конт. и*
ov.prom. 18 no.9:31-32 S '63. *(MIRA 10:9)*

1. Odesskiy tekhnologicheskii institut pishchevoy i kholodil'noy
promyshlennosti.

(Efficiency, Industrial)

OVSYANNIKOV, N.G.

Great gift of nature. Priroda 53 no.3:9-18 '64.

(MIRA 17:8)

1. Gosudarstvennyy proizvodstvennyy komitet po oroshayemomu zemle-
deliyu i vodnomu khozyaystvu RSFSR, Moskva.

OVSYANNIKOV, N.G.

Workers of the State Planning Institute on River Transportation
are fighting for technical progress. Rech.transp. 18 no.11:
23-26 N '59. (MIRA 13:4)

1. Direktor Gosudarstvennogo instituta proyektirovaniya i
isyskanly na rechnom transporte (Giprorrechtrans); chlen Kollegii
Ministerstva rechnogo flota (MRP).
(Inland water transportation)

OVSYANNIKOV, H.G.; ORLOV, D.A.

On the eve of the 21st Congress of the CPSU. Rech.transp. 17 no.10:
1-4 0 '58. (MIRA 11:12)

1. Zamostitel' Ministra rechnogo flota (for Ovsyannikov). 2. Nachal'-
nik Planovo-ekonomicheskogo upravleniya Ministerstva rechnogo flota
(for Orlov).

(Inland water transportation)

OVSYANNIKOV, N.G.

Tasks in 1968 for Russian Federation river transportation workers.
Rech. transp. 17 no.1:1-5 Ja '68. (MIRA 1183)

1. Pervyi zamestitel' Ministra rechnogo flota RSFSR.
(Inland water transportation)

QVSYANNIKOV, N.G.

Supervision and control of accomplished tasks is an important principle in communist leadership. Rech.transp. 16 no.12:4-7

D '57.

(MIRA 11:1)

(Inland water transportation--Accounting)

OVSTANNIKOV, N.G.

New Volga-Baltic waterway. Sov.mor.16 no.21:8-9 N '56.

(MIRA 10:1)

(Mariinsk Canal System)

OVSYANNIKOV, N.G., inzh.

Systematically lower the cost of river boat construction. Rech.
trans. 18 no.8:26-28 Ag '59. (MIRA 12:12)
(Shipbuilding--Costs)

OVSYANNIKOV, N.I. (g. Novozybkov Braynskoj oblasti)

Studying the inclined plane in the seventh grade. Fiz.v shkole
22 no.6:78 N-D '62. (MIRA 16:2)
(Dynamics--Study and teaching)

OVSYANNIKOV, Nikolay Nikolayevich, inzh.; FILIPPOV, S.M., red.)
SEVRYUKOV, P.A., tekhn. red.

[Green light to advanced welding methods] Progressivnoi
svarke - shirokuiu dorogu. Kursk, Kurskoe knizhnoe izd-
vo, 1963. 78 p. (MIRA 17:4)

OVSYANNIKOV, Nikolay Nikolayevich; CHIZHEVSKAYA, K.M., red.

[Methodology for the presentation of a course on keyboard computers; manual for instructors of the school system of the Administration of the Training of Accountants of the Central Statistical Administration of the U.S.S.R.] Metodika prepodavaniia kursa ekspluatatsii schetno-klavishnykh mashin; posobie dlia prepodavatelei uchebnoi seti UPK TsSU SSSR. Moskva, Statistika, 1964. 181 p. (MIRA 17:4)

1. N. 1. 1. 1. 1. 1.
MIN'KOVSKIY, Yefim Markovich; OVSIANNIKOV, Nikolay Nikolayevich; GRYAZNOV,
V.I., redaktor; MELIKT'YEV, A.W., tekhnicheskiy redaktor

[Operation of calculating machines] Eksploatatsiya vychislitel'nykh
mashin. Izd. 2-e, dop. 1 perer. Moskva, Gos. statist. izd-vo,
1955. 243 p. (MLBA 9:2)

(Calculating machines)

MIN'ROVSKIY, Yefim Markovich; OVSYANNIKOV, N.N., red.; USTIYANTS, V.A.,
red.; IL'YUSHENKOVA, T.P., tekhn. red.

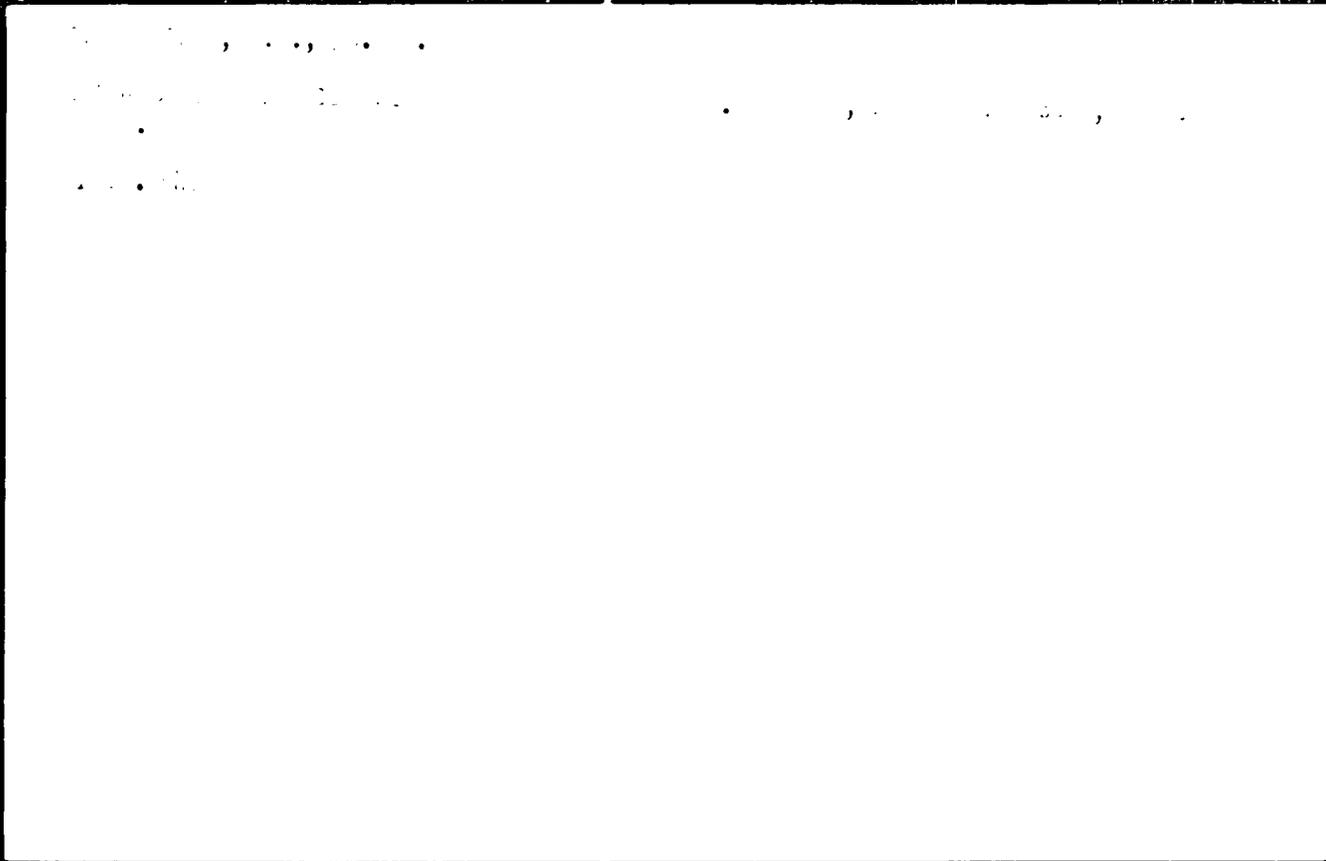
[Calculating machines and their use in accounting] Schetnye
mashiny i ikh ispol'zovanie v bukhgalterskom uchete. Moskva,
Gosstatizdat TsSU SSSR, 1961. 247 p. (MIRA 15:2)
(Calculating machines)

MIK'KOVSKIY, Yefim Markovich; OVSIANNIKOV, Nikolay Nikolayevich;
MAYSKAYA, N.I., red.; MAROV, M.A., red.; IL'YUSHENKOVA,
T.P., tekhn. red.

[The KELRS and SARS computer models; a manual for training
operators] Vychislitel'nye mashiny modeli KELRS i SARS; po-
sobie dlia obucheniia tekhnike raboty na mashinakh. Moskva,
Gosstatizdat, 1962. 98 p. (MIRA 1:10)
(Calculating machines) (Accounting machines)

BORISOV, Pavel Gavrilovich, prof.; VETVANKOV, Nikolai Sergeyevich,
dots.; LINDENBERG, G.V., prof., rezensent; KOGS VA, ...
red.

[A manual for commercial fishes of the U.S.S.R.] "Sposob-
litel' prorybnogo ryba SSSR. Izd. 4., perer. i dop. iz-
skva, Izd-vo "Nishechiv iia prorybshelnoit'," 1962. 214 p.
(MIRA 17:4)



ОУСЯНІКІВ, Н. С., jt. au.

Guide to commercial fish of the USSR

2. teor. i dop. izd. Moskva, Rishchenizdat, 1954. 250 p. (56-10459)

QL677.R8B6 1954

FIN'KO, V.I., kand. geologe-mineral. nauk; OVSYANNIKOV, N.V., kand. tekhn.nauk

New deposit of decorative marble. Priroda 48 no.6:88-90 Ja '59.
(MIRA 12:5)

1.Institut geologii rudnykh mestorozhdeniy, petrografii,
mineralogii i geokhimi AN SSSR, Moskva (for Fin'ko). 2.Dal'nevostochnyy
politeknicheskyy institut, Vladivostok (for Ovsyannikov).
(Maritime Territory--Marble)

CVSYHNN I KLL, N. V.

3(5)

PHASE I BOOK EXPLOITATION

SOV/1910

Akademiya nauk SSSR. Dal'nevostochnyy filial, Vladivostok. Institut geografii.

Materialy po fizicheskoy geografii yuga Dal'nego Vostoka; Prikhankayskaya ravnina i privileyushchiye k ney rayony Primorskogo kraya (Physical Geography of the Southern [Soviet] Far East; Khanka Plain and Adjacent Areas of the Primorskiy Kray) Moscow, Izd-vo AN SSSR, 1958, 299 p. 1,300 copies printed.

Resp. Eds.: B.P. Kolesnikov, Doctor of Biological Sciences, G.D. Rikhter. Doctor of Geographical Sciences, Professor, and V.V. Nikol'skaya, Candidate of Geographical Sciences; Ed. of Publishing House: P.K. Kavun; Tech. Ed.: Ye. V. Makuni.

PURPOSE: This book is intended for geographers interested in the physical geography of the Primorskiy Kray (Maritime Province).

COVERAGE: These articles deal with various aspects of the physical geography of the Primorskiy Kray, particularly the Suyfuno-Khankayskaya plain. A paleogeographic study of the Ussuri valley

Card 1/3

Physical Geography of the Southern (Cont.)	SOV/1910
Nikol'skaya, V.V., and D.A. Timofeyev. Geomorphological Characteristics of Small Sections in the Suputink and Kedrovaya River Basins.	107
Stotsenko, A.V. A Climatic Outline of the Prikhankayskaya Plain and Adjacent Territories	131
Sokolov, I.P. Dry Winds Susoveys as a Climatic Feature of the Forest-steppe Landscape of the Prikhankayskaya Plain	162
Stotsenko, A.V., V.G. Chernenko. A Hydrogeographic Description of the Rivers of the Prikhankayskaya Plain and Those of Contiguous Regions	179
Stotsenko, A.V. Floods in the Primorskiy Kray	254
Kurentsov, A.I. Animal Life in the Prikhankayskaya Plains	273

AVAILABLE: Library of Congress (GB325.A45)

MM/lrb
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Card 3/3

1. OVSYANNIKOV, N. V.
2. USSR 600
4. Rocks
7. Alveolate erosion of rocks, Priroda, 42, No. 1, 1953.

9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

OVSYANNIKOV, N. V.

OVSYANNIKOV, N. V.--"Andesite Basalts and Their Physicomechanical Properties."
Acad, Sci. USSR, Far Eastern Affiliate under V. L. Korarov, Vladivostok, 1955.
(Dissertation for the Degree of Candidate in Technical Sciences)

SC: Knizhaya Letopis', No. 35, 1955

ТАБДІКОВ, К.З.; О'СЯНДИКОВ, П.І.

Studying the roof stability of Pechorskagan mine chambers.
Trudy Inst. gor. Dela AN Kazakh. SSR 19:106-111 '65.

(MIRA 18:12)

PETRENKO, P.V.; EL'KIN, I.L.; KAZAKOV, S.S.; VOZHIK, D.L.; DENISOV,
V.V.; PUCHKOV, V.I.; BOGUTSKIY, N.V.; SAVEL'YEV, I.P.;
KOLENTSEV, M.T.; MERKULOV, N.Ya.; VERKLOV, V.A.;
OVSYANNIKOV, P.A.; SOSNOV, V.D., otv. red.; CHIZHOVA, V.V.,
otv.red.; ZHUKOVA, A.P., red.; LEVINA, T.I., red.; PRONINA,
N.D., tekhn. red.; OVSEYENKO, V.G., tekhn. red.

[Practice of using cutterloaders] Opyt ispol'zovaniia ochi-
stnykh kombainov; sbornik statei. Moskva, 1962. 102 p.
(MIRA 16:2)

1. Tsentral'nyy institut tekhnicheskoy informatsii ugol'noy
promyshlennosti.

(Coal mining machinery)

OVSYANNIKOV, P.M., starshiy prepodavatel:

Design of chain pushers. Izv. vys. ucheb. zav.; gor. zhur.
no.8:158-162 '61. (MIRA 15:5)

1. Kemerovskiy gornyy institut. Rekomendovana kafedroy
gornyykh mashin i rudnichnogo transporta Kemerovskogo gornogo
instituta.

(Mine railroads--Cars)

OVSYANNIKOV, I.M., *Stroy. mash. i avtom.*

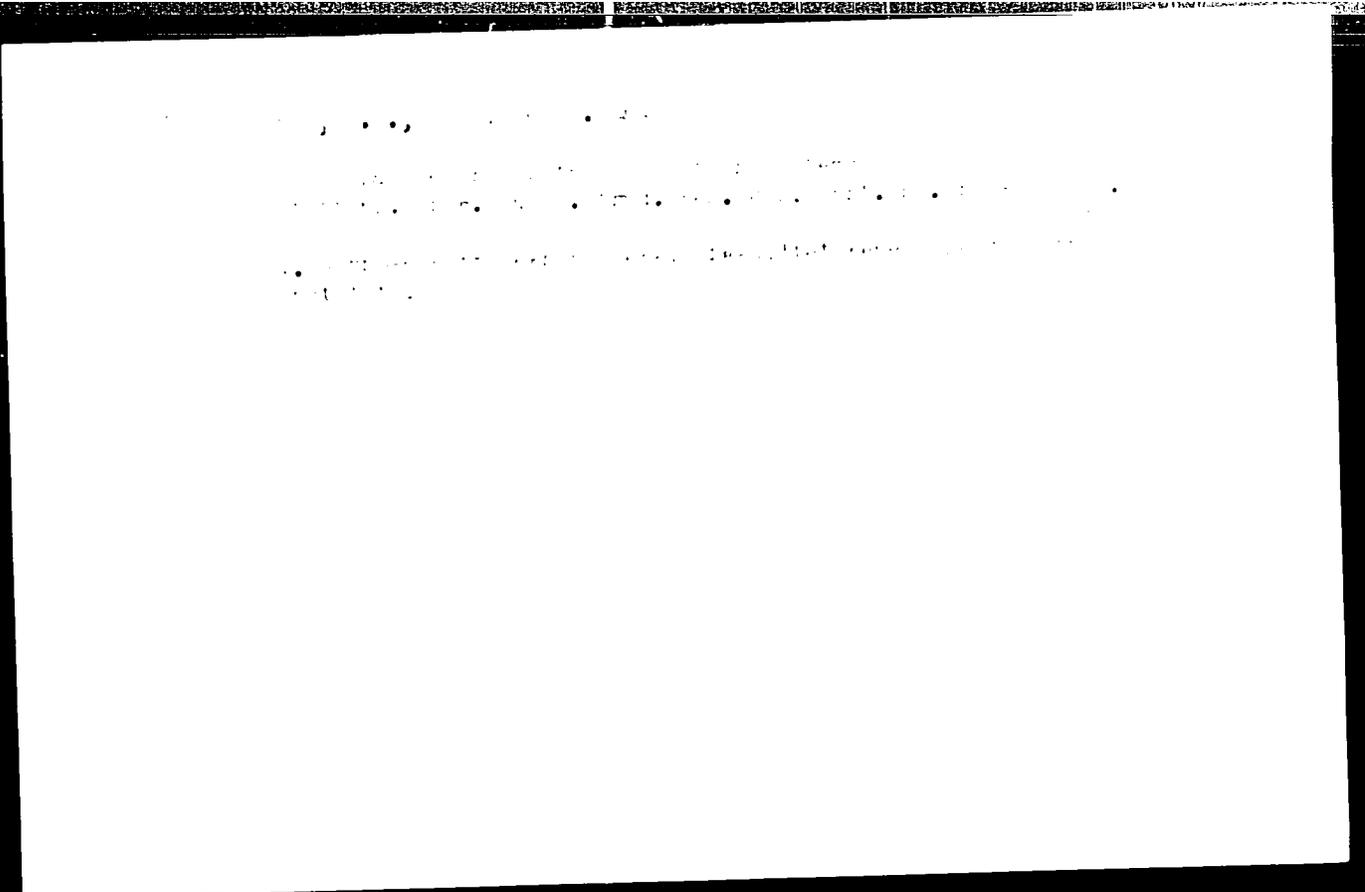
Study of the effect of the operating conditions of the drive of a chain pusher on the load of the traction chain and on the power consumption. *Izv. vyssh. shkoly. zav. por. zhur.* no. 11:11-14, 1963. (MIRA 17:4)

1. Kemerovskiy Gornyy Institut. Rekomendovana kafedroy pomykh mashin i sputnikov transporta.

OVSYANNIKOV, P.M., starshiy prepodvatel'

Longitudinal and transversal car loading. Izv. vys. ucheb. zav. ;
gor. zhur. no.12:101-108 '60. (MIRA 14:1)

1. Kemerovskiy gornyy institut. Rekomendovana kafedroy rudnichnogo
transporta i gornykh mashin Kemerovskogo gornogo instituta.
(Mine railroads--Cars)
(Coal handling machinery)



L 10529-66 EPA/EWT(m)/EWP(f)/EPF(n)-2/T/ETC(m) WW/WE

ACC NR. AP6003468 SOURCE CODE: UR/0318/64/000/012/0024/0026

AUTHOR: Marlin, A. G.; Nikolayeva, V. G.; Bayburskiy, L. A.; Krechetova, P. I.
Rudayev, V. Ye.; Bolotov, L. T.; Ovsyannikov, P. V.; Vlasov, F. F.

ORG: GrozNII

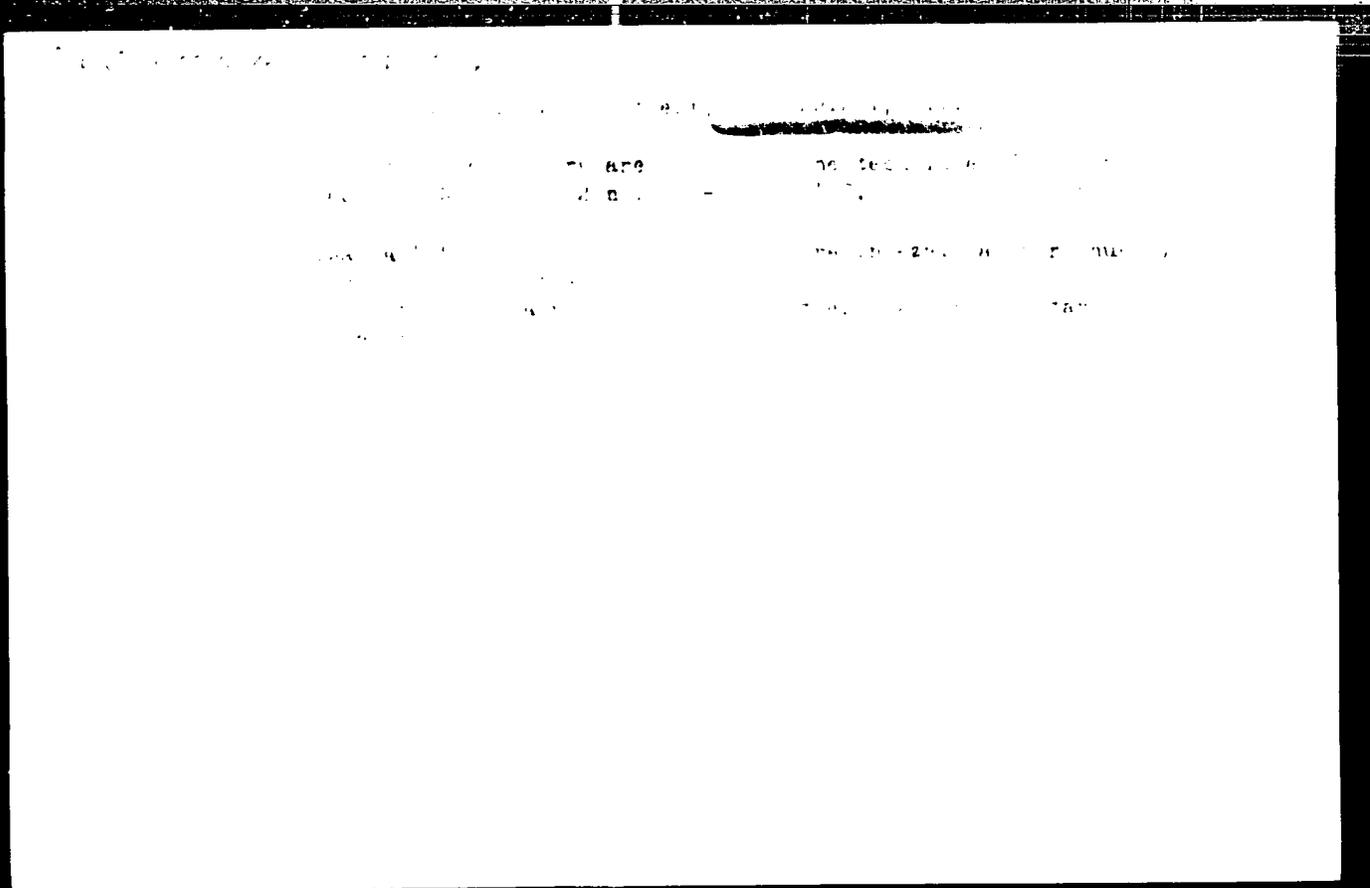
TITLE: Production of gas turbine fuel on the basis of products of thermal cracking

SOURCE: Neftepererabotka i neftekhimiya, no. 12, 1964, 24-26

TOPIC TAGS: gas turbine fuel, petroleum refining

ABSTRACT: A fraction with a boiling range of 200-350° obtained by thermal cracking of a mixture of mazut with a low sulfur content (0.31% S) and solar oil (with 0.15% S) was found to be a satisfactory fuel for gas turbine locomotives. The fuel had a low ash content (0.0007%), a sulfur content of 0.2%, a low vanadium content (traces), and a pour point of minus 17° against minus 12° required by standard specifications. Orig. art. has: 2 tables. [JPRS]

SUB CODE: 21 / SUBM DATE: none / ORIG REF: 002



СКОЛЯНИКОВ, Т. В., МУХОМАН,, ШКОЛЬНИК,,
СКОЛЯНИКОВ, Т. В., МУХОМАН,, ШКОЛЬНИК,,
СКОЛЯНИКОВ, Т. В., МУХОМАН,, ШКОЛЬНИК,

"The process of start
in"

Events on the
in the

ZHUKOV, I.S.; MINASYAN, T.S.; OVSYANIKOV, P.V.

Improving the operation of double-furnace thermocracking installations. Neftianik 2 no.8:14-16 Ag '57. (MIRA 10:10)

1. Nachal'nik ustanovki Groznenskogo kreking-zavoda (for Zhukov)
2. Dotsent Groznenskogo neftyanogo instituta (for Minasyan).
3. Zamestitel' glavnogo inzhenera Groznenskogo kreking-zavoda (for Ovsyannikov).

(Cracking process)

OUSYANNIKOV, V.

Utilization of cracking residues as stocks for repeated cracking. T. S. Minasyan, V. V. Serov, P. V. Orayannikov, I. S. Zhukov, and T. O. Karpenko. *Asrbaldzhan. Neft. Xəb.* 1956, No. 4, 19-22 (in Russian).—Cracking residues were deasphaltized with propane and reused as stocks for cracking. The complete exptl. data were given in detail.

T. Durbak
gmb

6

ОУСЯННИКОВ
MINASYAN, T.S.; SEROV, V.V.; OUSYANNIKOV, P.V.; ZHUKOV, I.S.;
KARPENKO, T.G.

Using cracking residues as material for secondary cracking.
Azerb.neft.khoz. 35 no.4:19-22 p '56. (MLRA 9:10)

(Cracking process)

NAZARETOVA, N.B.; BASHILOV, A.A.; AMERIK, B.K.; KRECHETOVA, P.I.;
OVSYANNIKOV, P.V.; SUKHOZEBRIKOV, A.P.

Industrial experiments on the destructive distillation of fuel
oils. Trudy GrozNII no.4:4R-59 '59. (MIRA 12:9)
(Petroleum products) (Distillation, Destructive)

DROZDOVA, Yo.I.; OREINA, Z.G.; SVETOZAROVA, O.I.; ZHDANOVA, V.V.; MEL'NIKOVA,
N.P.; OVSYANNIKOV, P.V.

Refining of the intermediate distillate fractions of thermal
cracking. Trudy GrozNII no.4:142-156 '59. (MIRA 12:9)
(Petroleum--Refining)

SOV/65-59-4-B/14

AUTHORS: Minasyan, T.S., Pal'chikov, G.F., Bolotov, L.T.,
Ovsyannikov, P.V., Shumovskiy, V.G., Afanasenko, M.M.,
Rusakov, A.P. and Karpenko, T.G.

TITLE: Investigations in the Grozny Plants on the Catalytic
Purification of Middle Distillates Obtained During
Thermo-Cracking Processes (Iz opyta raboty groznenskikh
zavodov po kataliticheskoy oshistke srednikh distillyatov
termicheskogo krekinga)

PERIODICAL: Khimiya i tekhnologiya topliv i masel, 1959, Nr 4,
pp 44-48 (USSR)

ABSTRACT: The octane numbers of gasolines can be improved by
catalytic cracking of the kerosine-gas-oil fractions,
obtained during fractional distillation. This,
however, seems unsatisfactory because these fractions are
high quality starting materials for jet and diesel fuels
etc. The middle fractions, obtained during thermal
cracking, used as diesel fuels, contain a high quantity
of unsaturated hydrocarbons and have a low cetane number.
The quality of diesel fuels can be improved by using
aluminium silicate catalysts and enriched secondary
distillates. In this way, the consumption of unsaturated

Card 1/3

SOV/65-59-4-8/14

Investigations in the Grozny Plants on the Catalytic Purification of Middle Distillates Obtained During Thermo-Cracking Processes

compounds is decreased and the cetane number of the diesel fuels increased, whilst maintaining the standards required by GOST for diesel fuels. Tests were carried out on substances obtained after second distillation of the broad fraction and also by using mixtures of these substances and the kerosine fraction obtained during thermal cracking. The properties of the tested materials are given in table 1 and the process conditions in table 2. Some high octane gasoline was obtained during this process. This was purified, washed and reacted with an 18 to 20% NaOH solution. After stabilisation it was purified again, treated with a 15 to 18% NaOH solution and washed. The stabilised pure gasoline had an octane number of 76. A catalyst of decreased activity (29 to 30) was used during the enriching process. The properties of the aluminium silicate catalysts are given (table 3). Table 4 gives the hydrocarbon composition of the gas. The catalytic cracking of middle fractions can

Card 2/3

S/081/61/000/021/070/094
B138/B101

AUTHORS: Bolotov, L. T., Shumovskiy, V. G., Ovsyannikov, P. V.,
Pal'chikov, G. F., Minasyan, T. S., Afanasenko, M. M., Rusakov,
A. P., Burlakov, A. G., Karpenko, T. G.

TITLE: Pilot run for the commercial processing of a secondary raw
material on a catalytic cracking unit

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 21, 1961, 401 - 402,
abstract 21M82 ([Tr.] Groznensk. neft. in-t. sb. 23, 1960,
97 - 105)

TEXT: With the aim of increasing supplies of quality high-speed diesel
fuels, experiments have been conducted, in commercial conditions, for the
refining of the medium fractions of the thermal cracking process by re-
distribution of the hydrogen on the aluminosilicate catalyst. The
characteristics of the starting material and of the end product are
enumerated. It is said that it would be possible to use this method for
the production of the components of high-octane automobile gasolines and
low pour-point high-speed diesel fuels. Data are given for the production

(Card 1/2

OVSYANNIKOV, P.V.

304/7213

PHASE I BOOK EXPLOITATION

11 (2, 6)
Greenny. Neftynoy mauchno-issledovatel'skiy institut
Dizain i tekhnologiya pererabotki nefti i gaza (Ministry and Technol-
ogy of Petroleum and Engineering Sciences) Moscow, Oostop-
tekhnikat, 1959. 278 p. (Series: Kna Trudy, vyp. 4) 2,500
copies printed.
Executive Ed.: P.D. Yefremov; Tech. Ed.: A.S. Polozina; Editorial Board: A.Z. Derzhavitskiy (Chairman), B.K. Amurik, G.I. Kas'yan,
B.N. Kamukin, V.I. Lavrent'yev, Ye.S. Lavchenko, and M.O. Mitro-
fanov (Deputy Chairman).

Summary: This book is intended for petroleum engineers and technicians
in scientific research institutes, planning organizations, and
refineries.
CONTENTS: This collection of technical papers on oil and gas refining
was originally discussed at the petroleum refining section of the
Third Soviet Scientific-Technical Congress in 1958. The articles
have been published to help further the development of the petroleum
refining industry and petrochemical industry in the Czechoslovakian
area. The history and significance of the petroleum refining in-
dustry in the Greenny region is outlined by A.Z. Derzhavitskiy
with emphasis on the interdependence of the refineries and the
aircraft, automobile and road manufacturing industries. oil
in modern engines demands change in fuel and lubricating prop-
erties. The increased use of jet aircraft means that the
tion of high octane aviation gasoline less important. The yield
production of the same type of fuel, aviation kerosene. Since crude
of which requires quite different refinery treatment valuable
recovered at the manufacturing lubricating oil and paraffin wax.
new materials for manufacturing lubricating oil and paraffin wax.
the properties have been thoroughly investigated and results of
analyzed. The re-equipment of the fuel producing line
of refineries at Greenny has been carried out on the basis of
findings obtained from tests and pilot plant operations, and a
number of reforming and platforming units have been built to up-
grade the low octane gasoline produced at Greenny. Tests were
also conducted to ascertain the advisability of applying fractions
destructive distillation of residues, which yields catalytic
needed for the 13-102 type were first put on stream in the
cracking units in 1952, and since that time continuous efforts

Greenny refineries in 1952, and since that time continuous efforts
have been made to heat their processing capacity. War of sugars-
regeneration of catalysts. The authors state that slight be in-
times as to how the throughput of the above types of pellets and need
created. The production of different types of pellets and their reactivator
catalysts. The contamination of catalyst coking reactor. Its
are discussed. The operation of catalyst coking units are described.
The authors also deal with the manufacture of lubricating oils,
paraffin and ceresine wax and indicate way of improving their
properties. Electrical denaturation and desalting of crude oil and
of light products are discussed. The authors state that the
years extensive studies particularly of gases, benzene, and kerosene.
petroleum products, dimethane and compressors were built and tested.
number of gasoline, acetone and acetone from propylene hydrocarbons.
to produce ethyl alcohol and oxidize paraffin various processes and
thesis is devoted to problems of automatic instruments. The book
developing the related control and gauge instruments. Each article is
contains numerous tables with the characteristics of different
petroleum products obtained from refinery processing units.
plants and petrochemical refinery sections. Each article is
accompanied by references.

TABLE OF CONTENTS

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000

ZHUKOV, I.S.; MINASYAN, T.S.; OVSYANNIKOV, P.V.

Ways for improving the operation of thermal cracking assemblies.
Azerb.neft.khoz. 75 no.6:46-48 Je '56. (MLRA 9:10)

(Cracking process)

KISLOV, V.V.; ZAITOV, I.K.; LOBANOV, A.N., doktor tekhn. nauk,
retsensent; LEVCHUK, G.F., kand. tekhn. nauk, dots.,
retsensent; BORDYUKOV, F.P., kand. tekhn. nauk, dots.
retsensent; OVSYANNIKOV, R.I., kand. tekhn. nauk, dots.,
retsensent; KOVLOV, V.N., kand. tekhn. nauk, dots.,
retsensent; BIR, N.Ya., doktor tekhn. nauk, prof.,
red.

[Practical work in photogrammetry] Praktikum po foto-
grammetrii. Moskva, Nedra, 1965. 187 p.

(MIRA 18:6)

VALUYEV, Afanasiy Sergeevich; GERTSENOVA, K.N., kand. tekhn. nauk, retsenzent; LOBANOV, A.N., retsenzent; BORDYUKOV, M.P., retsenzent; BUDYLOV, P.V., retsenzent; OVSYANNIKOV, B.P., retsenzent; POGORELOV, V.M., retsenzent; ROGOZIN, S.M., retsenzent; VASIL'YEVA, V.I., red. izd-va; SUNGUROV, V.S., tekhn. red.

[Practical work in stereophotogrammetry] Praktikum po stereo-fotogrammetrii. Moskva, Izd-vo geodez.lit-ry, 1961. 319 p. (MIRA 15:1)

1. Kafedra fotogrammetrii Voenno-inzhenernoy akademii im. V.V.Kuybysheva (for Lovanov, Borydyukov, Budylov, Ovsyannikov, Pogorelov, Rogozin).

(Photogrammetry)

OVSYANNIKOV, R.P., kand.tekhn.nauk

Random errors in spatial phototriangulation. Izv. vys. shk.
zav.; geod. i aerof. no.5:55-72 '61. (MIRA 1961)
(Aerial photogrammetry)

OVSYANNIKOV, R.P.: - kand. tekhn. nauk

Deformation of the model of a spatial aerotriangulation strip.
Izv. vys. ucheb. zav.; geod. i aerof. no.5:99-118 '60.

(MIRA 13:12)

(Aerial photogrammetry)

OVSYANNIKOV, R.P., kand.tekhn.nauk

Distortion of the relative positions of photographic stations and
triangulation stations. Izv.vys.ucheb.zav.; geod.i aerof. no.1:87-
104 '61. (MIRA 14:6)

(Aerial photogrammetry)

OVSYANN KOV, F.I., kand. tekhn. nauk, dokent

Relative orientation of photographs on universe. Appendix 3.
Izv. vys. ucheb. zav.; geod. i aerof. no. 2 (1954) 1-12.

OVSYANNIKOV, S.

~~Physical training for amateur parachutists. Kryn. red. 8 no.4:14-15~~
Ap '57. (MIRA 10:6)
(Physical education and training) (Parachutists)

OVSYANNIKOV, Stepan Grigor'yevich; KOSTYUKOVETS, F.T., red.

[Problems and instructions on methods for the analysis
of managerial operations of agricultural enterprises]
Sbornik zadach i metodicheskikh razrabotok po analizu
khoziaistvennoi deiatel'nosti sel'skokhoziaistvennykh
predpriatii. Minsk, Vysshaya shkola, 1966. 147 p.
(MIRA 17:12)

OVSYANNIKOV, Stepan Grigor'yevich; KOSTYUK, P.A.

[Inspection of economic and financial activities of agricultural enterprises] Reviziia khoziazistvennoi i finansovoi deiatel'nosti sel'skokhoziaistvennykh predpriatii. Minsk, Gos. izd-vo BSSR, 1960. 90 p. (MIRA 14:11)
(Agriculture--Economic aspects)

OVSYANNIKOV, S.G., kand. ekon. nauk; GRINMAN, G.I.; SHIFUNOV, I.F.;
DRAKICHNIKOV, I.F.; TYABUT, M.A.; KOLEVICH, A.G., red.;
TORKAYLO, I., red.; DIK, V., tekhn. red.

[Accounting and auditing on collective farms; practical aid]
bukhgalterskii uchet i revizionnaia rabota v kolkhozakh;
prakticheskoe posobie. Minsk, Sel'khozgiz BSSR, 1961. 246 p.
(MIRA 15:7)

(Collective farms—Accounting)

~~QVSYANNIKOV, S.O.~~; CHASHINSKIY, I.D.; SAFROMENKO, A.P., redaktor;
~~IZARCHIK, K.~~, redaktor; STEPANOVA, N., tekhnicheskiy redaktor

[Manual for the collective farm stock breeder] Spravochnik kolkhoznogo
zhivotnovoda. Minsk, Gos. izd-vo BSSR, 1956. 317 p. (MIRA 10:2)

1. Glavnyy zootekhnik Ministerstva sel'skogo khozyaystva BSSR (for
Safronenko)
(Stock and stockbreeding)

OVSYANNIKOV, S. G.

Production accounting in kolkhozes Minsk, Gos. izd-vo BSSR, 1954. 60 p.

CVSYAN IFCV, 5 G

N 5
700.112
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Ircizvodstvennyy uchët v kollektivnykh proizvodstvennykh
Collective Farms' *Prisr., Gos. Izd-vo Mosk., 1964.*

100. titles.

MIL'VIDSKIY, M.G.; LAYNER, L.V.; OVSYANNIKOV, S.P.

Dendrite structure in silicon single crystals grown in a melt
by Chokhral'skii's method. Kristallografiia 5 no.5:817-818
S-0 '60. (MIRA 13:10)

1. Gosudarstvennyy nauchno-issledovatel'skiy i proyektnyy
institut redkometallicheskoj promyshlennosti.
(Silicon crystals)

OVSYANNIKOV, Stepan Grigor'yevich; VEREVKINA, N.M., red.; BELEN'KAYA,
I.Ye., tekhn. red.

[Ways for improving original accounting on collective farms]
Puti usovershenstvovaniia pervichnogo ucheta v kolkhozakh.
Minsk, Izd-vo Belgosuniversiteta im. V.I.Lenina, 1960. 101 p.
(MIRA 14:8)

(Collective farms—Accounting)

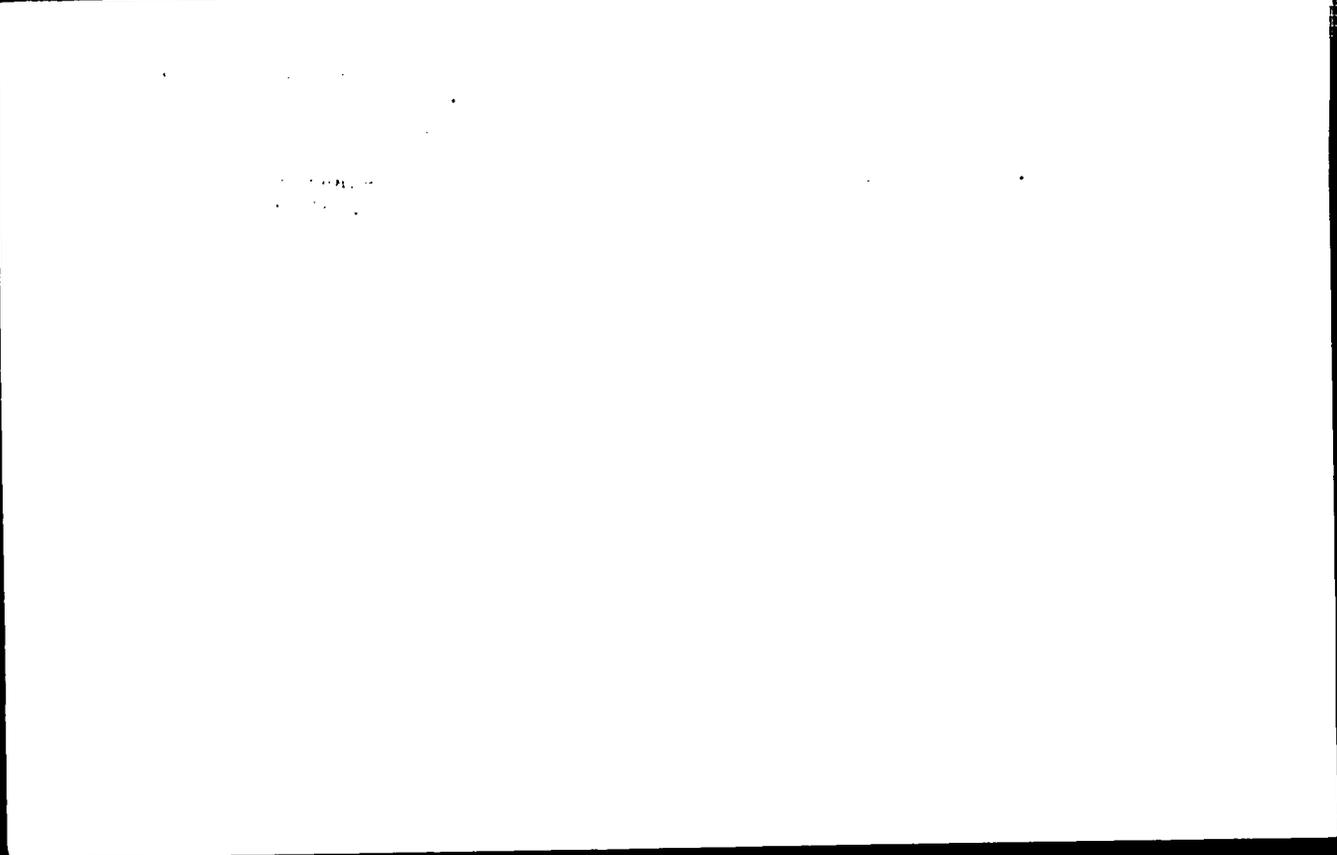
OVSYANNIKOV, T.N.; GRIGOR'YEVA, A.I., red.; TRUKHINA, O.N., tekhn.
red.

[Controlling wild oats and other weeds; from practices used on the "Kharitonovskii" State Farm in Zav'yalovo District, Altai Territory] Bor'ba s ovsiugom i drugimi sorniakami iz opyta sovkhosa "Kharitonovskii" Zav'yalovskogo raiona, Altaiskogo kraia. Moskva, Sel'khozizdat, 1963. 22 p.

(MIRA 16:7)

1. Glavnyy agronom sovkhosa "Kharitnovskiy" Zav'yalovskogo rayona Altayskogo kraia (for Ovsyannikov).

(Weed control) (Wild oats)



RAT, D.; OVSYANNIKOV, V.; DRIBINSKAYA, D.

Improving the system of collecting profit deductions. Fin. SSSR №
no.5:66-69 My '55. (MLRA 8:6)

1. Nachal'nik sektora finansirovaniya narodnogo khozyaystva L'vov-
skogo gorfinotdela (for Rat). 2. Zamestitel' nachal'nika planovo-
finansovogo otdela tresta "Dal'rybtara" (for Ovsyannikov). 3. Za-
mestitel' nachal'nika Upravleniya gosdokhodov Ministerstva finansov
Azerbaydzhanskey SSR (for Dribinskaya).
(Tax collection)

22779

S. 057, 61, 031, 001, 010, 020
B104, B205

26.2321

AUTHORS: Ovsyannikov, V. A., Bulvinskiy, D. G., Galaktionov, B. V.,
and Dolmatova, K. A.

TITLE: Method of measuring the temperature of plasma in systems
with magnetic plugs. I. The electron model

PERIODICAL: Zhurnal tekhnicheskoy fiziki, v. 31, no. 6, 1961, 1000-1061

TEXT: The authors describe a method that can be used to measure the
velocity distribution of both electrons and ions in plasma. In test
installations with magnetic fields of plug configuration, the plasma
particles perform oscillations between the plugs. If an additional coil
is installed near one of the plugs, which compensates the "plug" magnetic
field for a short time, the plasma can escape from the traps in longitudi-
dinal direction. If an electrostatic analyzer is installed in the path of
the plasma, it is possible to measure the energy distribution of the
released plasma portion. The maximum permissible time for opening the
plug is determined, during which the magnetic trap is not destroyed. The
maximum opening time is 1-2 μ sec. A retarding grid or collector is used

Card 1/4

Method of measuring...

22779
S/057/61/031/001/010/000
B104, BPO5

and 2 references: 1 Soviet-bloc and 1 non-Soviet-bloc.

ASSOCIATION: Fiziko-tekhnicheskij institut im. A. F. Ioffe AN SSSR
Leningrad Institute of Physics and Technology named
A. F. Ioffe, AS USSR, Leningrad

SUBMITTED: March 21, 1960

Legend to Fig. 1: 1) Rectifier; 2) power supply of the additional circuit;
3) generator of retarding pulses; 4) FV1-2 (GIC-2); 5) starting device;
6) oscilloscope.

Card 3/4

22779

31722
S/057/61/031/012/009/013
B104/B112

10 1300

AUTHORS: Mishin, G. I., and Ovsyannikov, V. A.

TITLE: Effect of the gas-dynamic relaxation of CO₂ on the drag factor of a sphere at supersonic speeds

PERIODICAL: Zhurnal tekhnicheskoy fiziki, v. 31, no. 12, 1961, 1467-1471

TEXT: Results of a measurement of the drag factor of a sphere in free flight at long and short relaxation times of the deformation vibrations of CO₂ molecules are presented. The required time for the establishment of thermodynamic equilibrium for the deformation vibrations of CO₂ molecules was regulated by proper choice of the CO₂ humidity. The experiments were made with a ballistic device at atmospheric pressure and temperatures around 19.5°C (1.6 < M < 4.9, 2.8 · 10⁵ < Re < 0.9 · 10⁶; diameter of the sphere, 5 mm). Fig. 1 shows the experimental drag factor C_x as a function of M. Before the experiments, the gas was carefully dried with acetone and dry ice. The required degree of humidity was achieved with distilled water. The gas density in the ballistic tube

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was measured with a gas pycnometer. The speed of sound in dry and humid CO₂ was measured with a sound interferometer. The formula

$$C_x = \left[\frac{2}{\gamma+1} + \frac{\gamma-1}{\gamma(\gamma+1)M_1^2} \right] \cdot \left[1 + \frac{\gamma-1}{\gamma} \frac{\gamma_1+1}{2\gamma_1 M_1^2 - (\gamma-1)} \right]^{\frac{1}{\gamma-1}} \quad (13)$$

is derived for the drag factor of a sphere of varying specific heat. Here $\gamma_1 = C_{p1}/C_{v1}$, $\gamma_2 = C_{p2}/C_{v2}$, C_{p1} and C_{p2} denote the specific heat in front of and behind the shock wave, $\bar{\gamma}$ is found from the integral

$$\bar{\gamma}R/(\bar{\gamma}-1) = \int_{T_1}^{T_2} C_p dt / (T_2 - T_1). \quad \text{Eq. (13) describes } C_x(M) \text{ in supersonic}$$

flows at varying specific heat for both excitation and relaxation of vibrations of a free molecule. From a comparison of experimental and theoretical data it results that 1) the effect of relaxation manifests itself only slightly, as the measurements were made at atmospheric pressure and the zone of relaxation was smaller; 2) with increasing M, the effect

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of relaxation, at constant pressure in the oncoming flow, on the drag factor of a sphere decreases, since the width of the zone in which thermodynamic equilibrium is established, narrows more quickly than the dropout of the shock wave decreases. V. R. Lazovskaya, I. M. Dement'yev, V. P. Yermakov, and N. P. Mende are thanked for participating in the experiments. There are 2 figures and 9 references: 3 Soviet and 6 non-Soviet. The three most recent references to English-language publications read as follows: A. Kantrowitz. J. Chem. Phys., 10, no. 2, 145, 1942; 14, no. 3, 150, 1946; W. Griffith, D. Brickl, V. Blackmann. Phys. Rev., 102, no. 5, 1209, 1955; F. Durham. J. Appl. Mech., 19, no. 1, 57, 1952.

ASSOCIATION: Fiziko-tehnicheskly institut im. A. F. Ioffe AN SSSR
Leningrad (Physicotechnical Institute imeni A. F. Ioffe
AS USSR, Leningrad)

SUBMITTED: January 9, 1961

Card 3/A

S/057/63/033/002/008/023
B108/B106

AUTHORS: Bulyginskiy, D. G., Galaktionov, B. V., Dolmatova, K. A.,
and Ovsyannikov, V. A.

TITLE: A method of measuring the energy spectrum of the particles
escaping from a plasma

PERIODICAL: Zhurnal tekhnicheskoy fiziki, v. 33, no. 2, 1963, 183-190

TEXT: The energy spectrum of the electrons and ions escaping from a plasma was studied using a vacuum device with corkscrew geometry of the magnetic field. The plasma pulses were produced by the discharge of a capacitor. The analyzer, three plane grids and the collector, were in a steel cylinder closed by a grid diaphragm to reduce the plasma concentration. The measurements were made by the delayed-potential method described by V. A. Ovsyannikov et al. (ZhTF, 31, 5, 577, 1961). The maximum energy of the electrons increased with increasing magnetic field strength, equaling about 50 ev at 1000 oe. The ion energy was independent of the magnetic field strength, reaching a maximum of some 200 ev (15 kv at the capacitor, $1-2 \cdot 10^{-4}$ mm Hg). Some of the results of this paper were reported at the
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▲ method of measuring the ...

S/057/63/033/002/008/C23
B108/B186

International Conference on Research in the Field of Plasma Physics and Controlled Nuclear Fusion, Salzburg, 1961. There are 10 figures.

ASSOCIATION: Fiziko-tehnicheskiy institut im. A. F. Ioffe AN SSSR,
Leningrad (Physicotechnical Institute imeni A. F. Ioffe
AS USSR, Leningrad)

SUBMITTED: February 12, 1962

Card 2/2

L 13490-66 INT(1)/INT(F)/INT(N)-2/INT(N) IJP(6) AT

ACC NR. AF0002440

SOURCE CODE: UR/0067/69/035/012/2176/2184

AUTHOR: Golant, V. Ye.; Karavichiy, M.G.; Ovyaninikov, V.A.; Piliya, A.D.

ORG: Physics-technical Institute in. A.F. Joffe, AN SSSR, Leningrad (Fiziko-
tehnicheskii institut AN SSSR)

21,44,55

59
52
B

TITLE: A toroidal machine for adiabatic compression of plasma

SOURCE: Zhurnal tekhnichestoy fiziki, v. 35, no. 12, 1965, 2176-2184

TOPIC TAGS: plasma heating, plasma compression, ~~plasma containment~~, ~~plasma device~~,
nonhomogeneous magnetic field, *magnetic field*, *physics laboratory instrument*

ABSTRACT: There is briefly described a new machine, the "Tuman", for ohmic heating and subsequent adiabatic compression of plasma. The chamber is in the form of a racetrack with 60 cm long straightaways and 20 cm radius semicircular ends. In order to meet the conflicting requirements for stable, efficient ohmic heating and high adiabatic compression ratio, the quasistationary longitudinal magnetic field (half-period 3 millisecc) was made strong (up to 50 kOe) in the semicircular end regions and weak (1.5-3 kOe) in the straightaways. The radius of the chamber in the semicircular end regions is 2 cm, and the plasma is stabilized by a 5 mm thick copper liner, which is slotted to permit penetration of the magnetic field. The radius of the chamber in the straightaways is 8.5 cm and the walls are of glass, there being no metallic liners that might reduce the rate of rise of the compressing magnetic

UDC: 533.9

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L 15040-66 EWT(1)/ETC(f)/EPE(n)-2/EWJ(m) LIP(c) AT

ACC NR: AP6004880 SOURCE CODE: UR/0057/68/036/001/0067/0079

AUTHOR: Golant, V. Ye. ; Keganskiy, M.G. ; Oveyannikov, V.A. 60
57
B

ORG: Physicotechnical Institute im. A.F. Ioffe, AN SSSR, Leningrad (Fiziko-
tekhnicheskiy institut AN SSSR)

TITLE: Investigation of plasma in the "Tuman" installation 21,44,55

SOURCE: Zhurnal tekhnicheskoy fiziki, v. 36, no. 1, 1966, 67-79

TOPIC TAGS: hydrogen plasma, heated plasma, confined plasma, plasma compression, plasma confinement, plasma density, plasma heating, plasma density, plasma temperature, plasma research

ABSTRACT: The first experiments with the "Tuman" installation are reported. The machine which is of race-track construction, was recently described by the authors and A.D. Diliya (ZhTF, 35, No.12, 1965). In the semicircular end sections the diameter of the chamber is small and the longitudinal magnetic field strength is made high to facilitate ohmic heating; in the straightaways the diameter of the chamber is larger and the initial longitudinal magnetic field strength is made low, to facilitate adiabatic magnetic compression of the plasma. The present experiments were undertaken mainly to explore the conditions of electrodeless discharge and ohmic heating. The pressure was pumped down to 10^{-6} mm Hg before the experiments and was cleaned with several dozen preliminary discharges, but it was not baked out. The experiments were performed with a steady flow of hydrogen. Preliminary ionization was effected with a

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ACC NR: AP6004880

with the current in opposite directions. It is not clear how the signal due to paramagnetism was evaluated or eliminated. From the diamagnetic moment of the plasma its density and temperature were estimated. At hydrogen pressures of 0.02 to 0.002 mm Hg ionizations of 50 to 90% were achieved with plasma temperatures of 4 to 8 eV. At 0.01 mm Hg hydrogen pressure and magnetic fields from 1 to 2 kOe, a plasma density of $5 \times 10^{14} \text{ cm}^{-3}$ was reached. Energy balance considerations indicated that the plasma was confined for approximately 20 μsec . Preliminary magnetic compression experiments were performed, with the field increasing to a maximum of from 4.5 to 18 kOe in from 20 to 30 μsec . High speed photographs showed that the diameter of the plasma filament was decreased by several times. The authors thank A.B. Berexin for performing spectroscopic measurements, S. G. Kalwykov for performing the microwave measurements, V. L. Pautov for active participation in the work, and the staff of the laboratory for assistance and valuable advice. Orig. art. has: 4 formulas, 8 figures, and 2 tables. [15]

SUB CODE: 20/

SUBM DATE: 21May65/

ORIG. REF: 004 / ATD PRESS: 4202

Card 3/3

OVSYANNIKOV, V.D.

For the title of enterprise of communist labor. Put' i put. khoz. 5
no. 1:38-39 Ja '61. (MIRA 14:5)

1. Glavnyy inzhener Pinskikh putevykh masterskikh Belorusskoy
dorogi.

(White Russia—Railroads—Employees)

BAKHTIYCHUK, P.V.; OVSIANNIKOV, V.D.

Strong and inexpensive tie plates. Put' i put.khos. no.6:36-37
Je '57. (MIRA 10:7)

1. Nachal'nik Pinskikh putevykh dorozhnykh masterskikh (for
Bakhtiychuk). 2. Glavnyy inzhener Pinskikh putevykh dorozhnykh
masterskikh (for Ovsyannikov).
(Railroads+Ties)